•	Application No.	Applicant(s)
Notice of Allowability	09/475,104	VODRAHALLI ET AL.
	Examiner	Art Unit
	James M. Mitchell	2813
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in the or other appropriate communication. This application is sub-	nis application. If not included cation will be mailed in due course. THIS
1. This communication is responsive to <u>11/23/2004</u> .		
2. The allowed claim(s) is/are <u>5-13 and 15-23</u> .		
3. \boxtimes The drawings filed on <u>30 December 1999</u> are accepted by	the Examiner.	
4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received:	e been received. e been received in Application I cuments have been received in	No
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
6. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Review (PTO-948) attached
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in	the Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)		mal Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Sum Paper No./Ma	
3. Information Disclosure Statements (PTO-1449 or PTO/SB/C Paper No./Mail Date 06/23		nendment/Comment
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Sta 9. □ Other	CARL WHITTHEAD IR SUPERVISUAL TECHNOLOGIC PROPERTY AND THE PROPERTY OF THE PRO

Art Unit: 2813

DETAILED ACTION

This office action is in response to the amendment filed November 23, 2004.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with William Schaal on January 14, 2005 to overcome the newly cited art.

The application has been amended as follows:

CLAIMS

In claim 21, delete lines 6 and 7.

In claim 5, line 4, after "epoxy" insert- - after applying said epoxy to the integrated circuit".

In claim 9, line 7, after "epoxy" insert- - after applying said epoxy to the integrated circuit".

In claim 22, line 8, after "epoxy" insert- - after applying said epoxy to the integrated circuit".

Art Unit: 2813

Allowable Subject Matter

Claims 5-13 and 15-23 are allowed.

The following is an examiner's statement of reasons for allowance: the prior art does not disclose or make obvious curing a thermal epoxy by microwave after the epoxy has been applied to the integrated circuit without heating other components of the integrated circuit package, which prevents warpage.

While the use of microwave curing is known in the art as exhibited by Browne (U.S. 6,014,999) and Hawley et al. (U.S. 5,844,217). In Browne the curing of the epoxy is performed prior to applying it to the integrated circuit. Also, in instances where curing was done after applying it to a chip, the entire chip and epoxy would be placed in a microwave chamber as shown in Hawley, but there is no teaching or that would make it obvious that no other component in the integrated circuit package would have a temperature that increases besides that of the epoxy. In contrast to applicant's invention and critical feature to prevent warping (Applic. Spec. 6, Line 23-24) that no other components of the integrated circuit package would be heated.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Response to Arguments

Art Unit: 2813

Applicant's arguments based on its amendment have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection would have been made absent examiner's amendment in view of Browne et al. (U.S. 6,014,999).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James M. Mitchell whose telephone number is (571) 272-1931. The examiner can normally be reached on M-F 8:00-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead Jr. can be reached on (571) 272-1702. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Art Unit: 2813

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January 2/1, 2005/